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Notice of Allowability	Application No.	Applicant(s)
	10/092,061	KELLER-TUBERG, STEFAN
	Examiner	Art Unit
	Jordan Hamann	2616
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. A This communication is responsive to <u>Amendment filed on the second </u>	<u>5/08/06</u> .	
2. The allowed claim(s) is/are <u>1-5,7-19,21-33 & 35-37, now re</u>	enumbered 1-34, respectively .	
3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawi he header according to 37 CFR 1.121(Office action of ngs in the front (not the back) of (d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	6. ☐ Interview Summary Paper No./Mail Da	tè
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☐ Examiner's Stateme	Chau To Allowance
	SUF	CHAU NGUYEN PERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Bobby Slaton on 8/31/06.

2. The application has been amended as follows: Claims 1, 18 & 33 have been replaced.

Claim 1. An Internet Protocol (IP) multicast control system, comprising:

a first module facilitating IP multicast control connections between a first apparatus and a second apparatus;

the first apparatus further includes:

a module controlling a plurality of network elements of the first apparatus;

a module supporting communication with at least one subtending network node of the first apparatus; and

a module supporting communication with at least one Digital Subscriber Line (DSL) apparatus; and

each one of said modules is interconnected with each other one of said modules; and

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a second module enabling termination of a control protocol of the first module and supported at an Asynchronous Transfer Mode (ATM) layer of the second apparatus.

Claim 18. A communication apparatus, comprising:

a first network node including an Internet Protocol (IP) Gateway Module and a Digital Subscriber Line Multiplexer (DSLAM);

the DSLAM includes an IP layer;

the IP Gateway Module is a network element of the DSLAM; and a second network node including a Gateway Control Protocol Terminating Module:

wherein the IP Gateway Module facilitates IP multicast control connections between the first network node and the second network node and wherein the Gateway Control Protocol Terminating Module enables termination of a control protocol of the IP Gateway Module and is supported at an Asynchronous Transfer Mode (ATM) layer of the second network node.

Claim 33. A method for facilitating Internet Protocol (IP) multicast services within a deployed network of network elements, comprising:

implementing, at an IP layer of a first network node, functionality controlling multicast connections between the first network node and a second network node an IP Gateway control protocol, wherein the first network node includes a Subscriber Line

Multiplexer (DSLAM), the IP layer is integral with the DSLAM, and implementing said functionality controlling multicast connections includes implementing said functionality at the IP layer of the DSLAM; and

implementing, at an Asynchronous Transfer Mode (ATM) layer of the second network node, functionality terminating the IP Gateway control protocol.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jordan Hamann whose telephone number is (571) 272-8564. The examiner can normally be reached on Monday-Thursday 8:30-5:30 and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JJH